

Site: Prin Enterprises
ID# 180981714806
Break 1.5
Other:

CDM FEDERAL PROGRAMS

CORPORATION

January 20, 1992

CONFIDENTIAL

Mr. Ken Herstowski U. S. Environmental Protection Agency Region VII RCRA Branch 726 Minnesota Avenue Kansas City, KS 66101

Project: ARCS Regions VI, VII, & VIII Contract No. 68-W9-0021

DCN: 7760-017-A4-RT-BYLD

Subject: Final Report for the Pries Enterprises, Inc. Site

(RCRA ID No. IAD981716806)

Dear Mr. Herstowski:

CDM FEDERAL PROGRAMS CORPORATION (FPC) is pleased to submit this Final Report for the Pries Enterprises, Inc. site. We have addressed all comments on the Draft Final Report received on December 18, 1991.

Attached is a summary of our responses to the reviewers' comments and the PA Scoresheets.

If you have any questions, please call me at (913) 492-8181.

Sincerely,

CDM FEDERAL PROGRAMS CORPORATION

Thelip C Dula

Philip C. Dula, P.G.

Project Manager

Attachments

cc: DC

RF

PCD.117

30024742 Superfund

FPC RESPONSES TO COMMENTS

RE: Draft Final Report for the Pries Inc. Site - Independence, IA.

Comments Submitted by: Bill Lowe, RCRA

Comments Received: 12/18/91

NO.	REFERENCE	COMMENT	
1	Section 2.1	Comment:	"Section 2.1 should include the county in which the facility is located."
		Response:	Comment noted. Section 2.1 is revised accordingly.
2	Table 3-1	<u>Comment</u> :	"Table 3-1. This table is of limited value as it is presented, it should include well/screen elevations (or at least depths) and the type of aquifers (eg. glacial till, alluvium, bedrock etc.) that represent the production zone for each well."
		Response:	Comment noted, and Table 3-1 is revised to include type of aquifer, casing depths and well depths.
3	Fig. 2-1	<u>Comment</u> :	"Section 3.2, page 3.3. It appears from Figure 2-1 that surface drainage would be to the west, northwest. If the Facility is located correctly on the map, it is on the west side of a drainage divide. In addition, the only place where the Wapsipinicon River is less than a mile from the Facility is to the north."
		Response:	Comment noted and confirmed. Section 3.2 is revised accordingly.

NO.	REFERENCE	COMMENT	
4	Section 3.3	Comment:	"Section 3.3, page 3-2 (page 3-2 is mistakenly labeled 3-3). There should be more specific
			information about the site geology. Apparently the site is
			underlain by glacial till but that is not really clear. In addition there should be some investigation of literature or construction documents or well completion records that provide an indication of the thickness of the till. It is not possible to
			adequate assess the significance
			of subsurface contamination without this type of information."
		Response:	Geology information on central and eastern Iowa was reviewed, and well construction logs for municipal wells 1, 2, 3, and 4 in Independence, Iowa, were consulted. A stratigraphic column was prepared from information in the well construction logs and appears as Figure 3-1. More specific geology information is incorporated into Section 3.3.
4 a	Section 3.3	<u>Comment</u> :	"Section 3.3, last paragraph. This entire paragraph is unclear, for example; Aquifer is not synonymous with bedrock; Based on this text, the uppermost bedrock aquifer is comprised of both Devonian and Silurian bedrock units; Fully penetrating wells are not described by "thickness"; Why does an aquifer which produces 1000 gpm only yield 700 gpm? This entire paragraph needs more research and then rewriting."

Response: Comments noted and changes have been made accordingly in Section 3.3.

NO. REFERENCE COMMENT

Comments Submitted by: Don Lininger, EPA

Comments Received: 12/18/91

General Comments

"Don Lininger made several edits within the text of the original Final Report." Comment:

Response: These comments were noted and

addressed.



PA Scoresheets

PRELIMINARY ASSESSMENT

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	CERCLE EDINTIFICATION NUMBER AND	
STATE	SITE NUMBER	
IOWA	TAD0514 60485	

SITE LOCATION	
SITE NAME: Legal, common or destingue name et ette	
PRIES Enterprises, Inc.	
STREET ADDRESS. ROUTE or SPECIFIC LOCATION IDENTIFIER 701 17th Street 5.8	
an INDEPENDENCE	STATE ZIP CODE TELEPHONE
COORDINATES: LATITUDE and LONGITUDE 420 2715" and 91053'13"	TOWNSHIP, RANGE, and SECTION TERW, RIW and Sec. 10

	OWNER/OPERATOR IDENTIFICATION						
OWNER PRIE	s ENTERP	RISES In	اد	OPERATOR	IERLE J	McMAHON	
-OWNER-ADDE	ESS			OPERATOR ADD	ness		
701	1-	+ S.E		701-		ree t	
INDEPENIOS NC 5				an In	DEPEND	EN CE	
STATE	ZIP CODE	TELEPHONE	7068	STATE A Z	ZIP CODE 50644	TELEPHONE 12191 334 - 7068	

	TYPE OF CHINERSHIP	e e es es es es	14.X	·-, 50 0		OWNER/OPERATOR NOTIFICATION ON FILE "
œ	PRIVATE			a	NONE	
ı o	FEDERAL: Agency name		i			
1 3	STATE		ì	a	CERC	LA 103 C, UNCONTROLLED WASTE SITE
· I	COUNTY		į .			DATE:
) a	MUNICIPAL		J		,	
	OTHER:		1	4	ROM	3001
ב	NOT SPECIFIED					DATE: 8/14/87

SITE STATUS	YEARS OF OPERATION	APPROXIMATE SIZE OF SITE
ACTIVE I UNKNOWN	BEGINNING YEAR: 4985 ENDING YEAR: UNKNOWN	~ 55,000 ft 2

	SITE EVALUATION
AGENCY / ORGANI	COM/ARCE
INVESTIGATOR	Amare Netatha
CONTACT	Don Linicary Prim VII EPA/PCYA
ADDRESS	650 Michael Arenas Ramina City Canida
TELEPHONE (413) =[1-3+3+
DATE /)又 /	.6191

Site Name: PK 125 EN 12K PK 1323 122

Date: 08/29/9/

GENERAL INFORMATION

Site Description and Operational History:

The Pries Enterprises facility is breated at 701, 17th street 2.8, Independence, Iowa. The plant was built in 1985 and Ever approximately 55,000 ft 2. Manufacturing operation began in : 11/86. The plant operated two to three days a week from 1/1/86 to 8/1/86 and has since utilized an 80 hour / 2 shift per week operation At present, approximately 25 to 20 employees : taff operation at Pries Enteprises

Pries Enterprises manufactures extruded clumic, um products. sen ench icum enum sullete are heated to 300°F and then presid through her my hydramic religated force In may 1987 an eldetim to the plant was will to encorporate journing of extraded aluminum intures transming peration process was designed to hang the intures transmitable, followed by seven dip tanks for cleaning and etching, parts inying , paint opplication, and paint curring The aluminum parts dearing presition was comprised if a countre (Na OH) and scap cleaning trank, two clear fund more frinks, and electrical curame deposition tank and two clear water fund muse tanks. The nacritum operation near not used in production due to pro- removemente during to puter studies phase provided after construction

Probable Contaminants of Concern:

Previous investigations; analytical datal

the probable conforminants of concer at the facing

un charle.

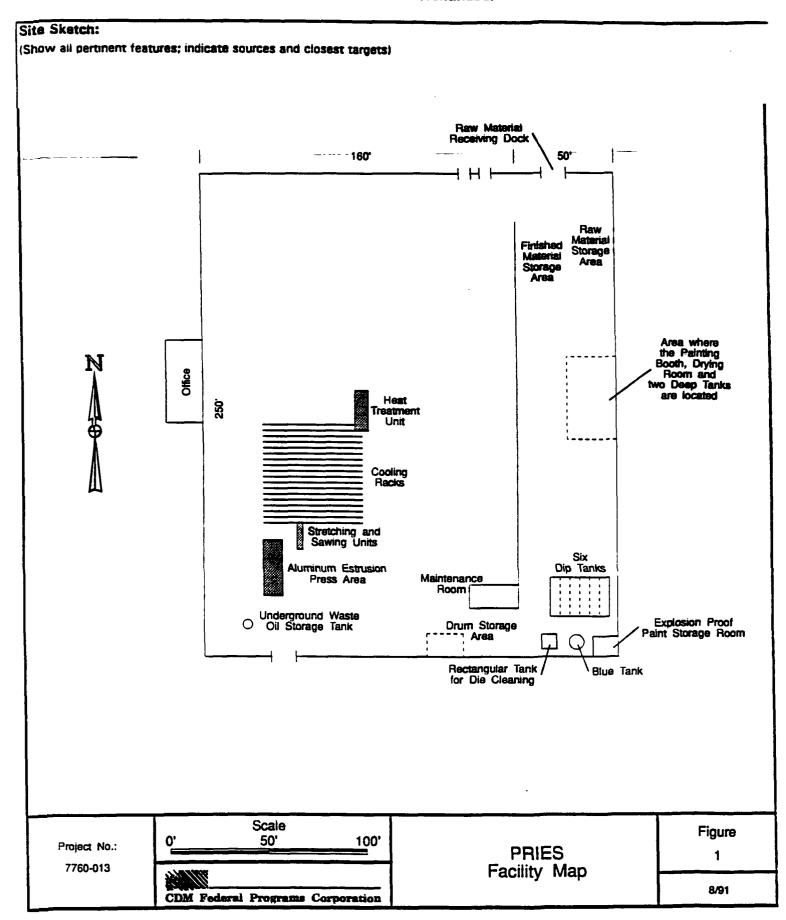
- Sodum nyderide
- chromine (becaudent)
- Tilmene

NOV 0 6 1990

Site Name: FKIZS CHIEN

Date: 08/29/4/

GENERAL INFORMATION (continued)



Site Name: PRIES ENTER PRISES INC. 4.
Date: 08/29/9/

NOV 0 8 1990

GENERAL INFORMATION (continued)

Source Descriptions:

I underground 6 fort deep by 4 square foot waste out tenk abouted at the North-East section of the facility

Waste Characteristics (WC) Calculations:

(See PA Table 1, page 5)

NOV 06 1990

PA TABLE 1: WASTE CHARACTERISTICS (WC) SCORES

PA Table 1a: WC Scores for Single Source Sites and Formulas for Multiple Source Sites

Ţ		SINGLE	SOURCE SITES (assigned WC a	scores)	MULTIPLE SOURCE
ER	SOURCE TYPE	WC = 18	WC = 32	WC = 100	Formula for Assigning Source WQ Values
-12mC-+	N/A	≤ 100 lbs	>100 to 10,000 tos	> 10,000 lbs	lbs + 1
34stustew42	N/A	≤ 500,000 lbs	> 500,000 to 50 million lbs	>50 million lbs	/bs + 5,000
	Landfill	≤6.75 million ft² ≤250.000 yd³	> 6.75 million ft ³ to 675 million ft ³ > 250,000 to 25 million yd ³	> 675 million ft ³ > 25 million yd ³	ft ² + 67,500 yd ³ + 2,500
	Surface impoundment	≤6.750 ft³ ≤250 yd³	> 6,750 ft ² to 675,000 ft ² > 250 to 25,000 yd ²	> 675,000 ft ² > 25,000 yd ²	$ft^3 + 67.5$ $yo^3 + 2.5$
0	Drums	≤ 1,000 drums	> 1,000 to 100,000 drums	> 100,000 drums	drums + 10
U	Tanks and non- drum containers	≤50.000 gallons	>50,000 to 5 million gallons	>5 million gallons	gallons + 500
E	Contaminated soil	≤6.75 million ft³ ≤250.000 yd³	> 6.75 million ft ¹ to 675 million ft ¹ > 250,000 to 25 million yd ³	>675 million (t ³ >25 million ya ³	ft ² + 67,500 yd ³ + 2,500
	Pile	≤6.750 ft³ ≤250 yd³	> 6,750 ft ³ to 675,000 ft ³ > 250 to 25,000 vd ³	> 675,000 ft ³ > 25,000 vd ³	ft ³ + 67.5 yd ³ + 2.5
	Lanofill	≤340.000 ft ⁴ ≤7.8 acres	> 340.000 to 34 million ft ² > 7.8 to 780 acres	>34 million ft² >780 acres	ft + 3,400 acres + 0.078
A	Surface— impoundment	≤1.300 ft ⁴ ≤0.029 acres	>1.300 to 130,000 ft ² >0.029 to 2.9 acres	> 130,000 ft² > 2.9 acres	(r² ÷ 13 acres + 0.00029
REA	Contaminated soil	≤3.4 million ft ¹ ≤78 acres	> 3.4 million to 340 million ft ² > 78 to 7,800 acres	>340 million ft ² >7,800 acres	fr² + 34,000 acres + 0.78
	Pile*	≤1.300 ft² ≤0.029 acres	>1,300 to 130,000 ft ² >0.029 to 2.9 acres	>130,000 ft ² >2.9 acres	ft ² + 13 acres + 0.00029
	Land treatment	≤27,000 ft ⁴ ≤0.62 acres	> 27,000 to 2.7 million ft ² > 0.62 to 62 acres	> 2.7 million ft² > 62 acres	ft ² + 270 acres + 0.0062

 $^{1 \}text{ ton} = 2.000 \text{ lbs} = 1 \text{ yd}^3 = 4 \text{ drums} = 200 \text{ gailons}$

PA Table 1b: WC Scores for Multiple Source Sites

WQ Total	WC Score
>0 to 100	18
> 100 to 10,000	32
> 10.000	100

^{*} Use area of land surface under pile, not surface area of pile.

Site Name: PRIES INTER PRISES INC

Date: 08/29/91

GROUND WATER PATHWAY GROUND WATER USE DESCRIPTION

Describe Ground Water Use Within 4-miles of the Site:

(Provide generalized stratigraphy; information on aquifers, municipal, and or private wells)

Simulate is used as the minger source of potable supplies for the residents in Independence Ioura. Those are four municipal wells supplied the city residence and two municipal wells the mental health hospital with it town. The depth of these wells range from 260 and 161. There we also four mount industrial and private wills retained and private wills retained and private will retain and around the city of Independence.

0	, occoura in ana	acaci	J , 4	_
ell #	· NPC	iocation	Uithdrawal rate	Service
1	Municipal	NW of Independence	600 Jul/min	City of Independence
2	• • • • • • • • • • • • • • • • • • • •	2W 11	623	10.00
3	1,	NE "	u 20 ''	., ., .,
4		NE "	420 "	11 21 21
· ~	.1	imile SW Blody	perior 250 "	Interpretate Statettagital
Ĩ	•		250 "	1, 11
		• •		1

Show calculations of ground water drinking water populations:

prominent with serve set the residents. The nature so in 1,11 ingelier. There are ming 4 pointe allower and and are mostly for modern break use.

GROUND WATER PATHWAY CRITERIA LIST

Site Name: PRIES ENTERPRISES INC. Date: 08/29/9/

This chart provides guidelines to essist you in hypothesizing the presence of a suspected release and identifying primary targets. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize a suspected release or to identify primary targets. This chart will record your professional judgment in evaluating these factors.

The "Suspected Release" section of the chart guides you through evaluation of some site, source, and pathway conditions to help hypothesize whether a release from the site is likely. If a release is suspected, use the "Primary Targets" section to guide you through evaluation of some conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once-depending on the number of targets you feel may be considered "primary." In the "Primary Targets" section on this sheet, record the responses for the well-that-you feel has the highest probability of being exposed to hazardous substances.

Check the baxes to indicate a "yes", "no", or "unknown" enswer to each question. If you check the "Suspected Release" box as "yes", make sure that you assign a Likelihood of Release value of 550 for the pathway.

GROUND WATER PATHWAY								
			SUSPECTED RELEASE				PRIMARY TARGETS	
Y • ~	N	U 		Y N U				
		-0						
2	×	. =	Are sources poorly contained?	а			Is any drinking-water well nearby?	
Ç	=	Ξ	is the source a type likely to contribute to ground water contamination (e.g., wet lagoons?	a			Is any nearby drinking-water well closed?	
3	×	Ξ	is weste quantity particularly large?	_		□	Has foul-tasting or foul-smelling water been reported by any nearby dinking-water users?	
_	×	⊐	Is precipitation heavy and infiltration rate high?	٥	□	۵	Do any nearby wells have a large drawdown or high production rate?	
C	×		Is the site located in an erea of karst terrain?	<u> </u>	а		Are drinking-water wells located between the site and other wells that are suspected to be exposed to hazardous substances?	
	3	X	Is the subsurface highly permeable or conductive?		۵	□	Does any circumstantial evidence of ground weter or drinking water contamination exist?	
=	X	=	Is drinking water drawn from a shallow equifer?		□		Does any drinking-water well warrant sampling?	
C	X	2	Are suspected contaminants highly mobile in ground water?		۵		Other criterie?	
Ξ	×	=	Does any circumstantial evidence of ground water or drinking water contamination exist?				PRIMARY TARGET(S) IDENTIFIED?	
=	X	-	Other criteria?	1				
	X		SUSPECTED RELEASE?					
Summarize the rationale for suspected release (attach an additional page if necessary): [VO Surpected release (attach an additional page if necessary): ———————————————————————————————————								
			rationale for Primary Targets (attach an additional pag	e if ned	COSSA	y):		

Date: 08/27/91

GROUND WATER PATHWAY SCORESHEET

Pathway Characteristics	
Do you suspect a release (see Ground Water Pathway Criteria List, page 7)?	Yes No
Is the site located in karst terrain?	Yes No 🔽
Depth to aquifer:	ft
Distance to the nearest drinking-water well:	<u>8000</u> ft

	Depth to aquifer:		- <u> 11</u>	
	Distance to the nearest drinking-water well:		8000 ft	
		A	B	
LIKELIH	OOD OF RELEASE	Suspected Rolesse	No Suspected Release	References
	ECTED RELEASE: If you suspect a release to ground water (see page 7), in a score of 550, and use only column A for this pathway.	15406	(5.00 to 600)	
the s	USPECTED RELEASE: If you do not suspect a release to ground water, and ite is in karst terrain or the depth to aquifer is 70 feet or less, assign a score of 340. Use only column 8 for this pathway.	400	€00	1,4
	LR =			
TARGE	rs			_
arı n k	ARY TARGET POPULATION: Determine the number of people served by ing water from wells that you suspect have been exposed to hazardous tances from the site (see Ground Water Pathway Criteria List, page 7).			
drink	ONDARY TARGET POPULATION: Determine the number of people served by ing water from wells that you do NOT suspect have been exposed to hazardous tances from the site, and assign the total population score from PA Table 2.			
	Are any wells part of a blended system? Yes V No	(\$0.30,10.0.0.1.2, = 0	45	2
assio	REST WELL: If you have identified any Primary Targets for ground water, in a score of 50; otherwise, assign the highest Nearest Well score from Table 2. If no drinking-water wells exist within 4 miles, assign a score of zero.		20	2
	LHEAD PROTECTION AREA (WHPA): Assign a score of 20 if any portion of signated WHPA is within ¼ mile of the site; assign 5 if from ¼ to 4 miles.	[20, % , as ut	.70. 8. 40 01	2
7. RES	OURCES: A score of 5 is assigned.	5	5	
L	Τ =		155]
WAST	E CHARACTERISTICS			-
	f you nave identified any Primary Targets for ground water, assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part 8 of this factor.	1100 m 32)		
	f you have NOT identified any Primary Targets for ground water, assign the waste characteristics score calculated on page 4.	(100. 32. er iel	5	
<u> </u>	WC =		3	
				_ 7
		[min;100 00	a magazan er 1001	1

GROUND WATER PATHWAY SCORE:

LR x T x WC 82,500 16· -10

PA TABLE 2: VALUES FOR SECONDARY GROUND WATER TARGET POPULATIONS

PA Table 2a: Non-Karst Aquifers

		Nearest			Pop	ulation Se	red by N	ells Within	n Distance	Category	<i>1</i>		
Distance from Site	Population	Well (choose highest)	1 10 10	11 to 30	31 to 100	101 (e 300	301 to 1.000	1,001 to 3,000	3,001 to 10,000	10,001 10 30,000	30,001 to 100,000	100,001 ta 300,000	Population Value
0 to ¼ mile		20	1	2	5	16	52	163	521	1,633	5,214	16,325	
> ¼ to ½ mile		18	①	1	3	10	32	101	323	1,012	3,233	10,121	
>½ to 1 mile		9	1	1	2	5	17	52	167	522	1,668	5,224	
>1 to 2 miles	6342	5	1	1	1	3	9	29	94)	294	939	2,938	94
> 2 to 3 miles		3	1	1	1	2	7	21	68	212	678	2,122	
>3 to 4 miles		2	1	1	1	1	4	13	42	131	417	1,306	
	Nearest Well =	2.0	•								S	core =	95

PA Table 2b: Karst Aquifers

		Nearest	98 886	\$ 100 de \$6	Pop	dation Se	rved by H	et Will	e Clatere	THE PROPERTY			
Distance from Site	Population	Well (u se 2 0 (or karst)	1 10 10	11 to 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	2,001 to 10.000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	Population Value
O to ¼ mile		20	1	2	5	16	52	163	521	1,633	5,214	16,325	
> ¼ to ½ mile		20	1	1	3	10	32	101	323	1,012	3,233	10,121	
> ½ to 1 mile		20	1	1	3	8	26	82	261	816	2,607	8,162	
>1 to 2 miles		20	1	1	3	8	26	82	261	816	2,607	8,162	
>2 to 3 miles		20	1	1	3	8	26	82	261	816	2,607	8,162	
>3 to 4 miles		20	1	1	3	8	26	82	261	816	2,607	8,162	
Nearest Well = Score =													

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NOV 0 8 1990

Site Name: PRIES ENTEPRISES INC.

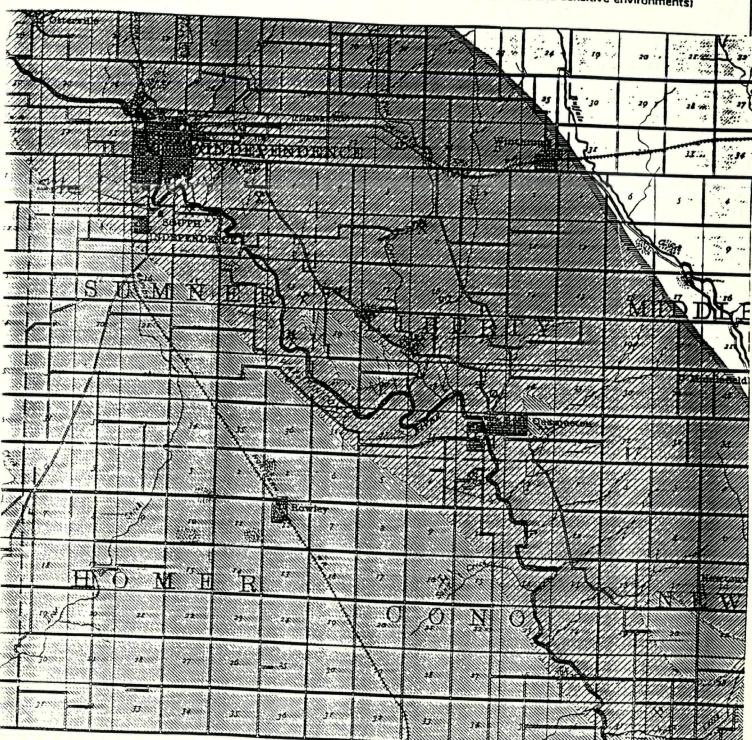
Date: 08-26-91

10

SURFACE WATER PATHWAY MIGRATION ROUTE SKETCH

Provide a Sketch of the Surface Water Migration Route:

(include runoff route, probable point of entry, 15-mile target distance limit, intakes, fisheries, and sensitive environments)



SURFACE WATER PATHWAY CRITERIA LIST

Site Name: PRIÉS ENTERPRISÉS INC.

This chart provides guidelines to assist you in hypothesizing the presence of a suspected release and identifying primary targets. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize a suspected release or to identify primary targets. This chart will record your professional judgment in evaluating these factors.

The "Suspected Release" section of the chart guides you through evaluation of some site, source, and pathway conditions to help hypothesize whether a release from the site is likely. If a release is suspected, use the "Primary Targets" section to guide you through evaluation of some conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once, depending on the number of targets you feel may be considered "primary." In the "Primary Targets" section on this sheet, record the responses for the target that you feel has the highest probability of being exposed to hazardous substances.

Check-the boxes to indicate a _ves_ _no_, or _unknown_answer to each question... If you check the _Suspected Release_box as _ves_, make sure that you assign a Likelihood of Release value of 550 for the pathway.

			المراجع والمراجع والم				كالتفاد والمتناز		
			SUBPECTED RELEASE				PRIMARY TARGETS		
	N 0	A03F3C		*	N	A-SATO	e!" . 3		
i		ā	Is surface water nearby?	۵			Is any target nearby? If yes:		
ı	I		Is weste quantity particularly large?				☐ Drinking-water intake		
L	=	Ξ	Is the drainage area large?				☐ Fishery		
:	Ξ	3	is precipitation heavy or infiltration rate low?				☐ Sensitive environment		
ì	×,	7	Are sources poorly contained or prone to runoff or flooding?	۵	. 🗆	□	Has an intake, fishery, or recreational eres been closed?		
1	Ŧ	۵	is a runoff route well defined (e.g., ditch or channel leading to surface water)?	-	а	۵	Is there any circumstantial evidence of surface water contamination at or downstream of a		
:	Ŧ		Is vegetation stressed along the probable runoff path?	٥	а	а	target? Does any target warrant sampling? If yes:		
3	7		Are suspected contaminents highly persistent in surface water?		•		☐ Drinking-water intake		
:	3	=	Are sediments/water unnaturally discolored?				☐ Fishery		
:	:2	=	is wildlife unneturally absent?	_	_		☐ Sensitive environment		
2	3	7	Has deposition of waste into surface water been observed?		<u> </u>		Other criterie?PRIMARY INTAKE(S) IDENTIFIED?		
- .	=	_ = _	13 ground water discharge to surface water likely?				PRIMARY FISHERY IDENTIFIED?		
-	‡ ~		is there any circumstantial evidence of surface water contamination?				PRIMARY SENSITIVE ENVIRONMENT(S)		
2	₹.	٠.	Other criterie?	1					
~	Ž		SUSPECTED RELEASE?				· .		
Summarize the retionale for suspected release lattach an additional page of necessary): No Suspected release									
umi	marize	tne	rationale for Primery Targets (attach an additional pag	e if ne	C 0538 (y):			

Site Name: PRIES ENTERPRISES INC. 12

Date: 08/29/91

NOV 0 6 1990

SURFACE WATER PATHWAY LIKELIHOOD OF RELEASE AND DRINKING WATER THREAT SCORESHEET

	Pathway Characteristics]	
	Do you suspect a release (see Surface Water Pathway Criteria List, page	11)7 Yes	No 🗸	
	Distance to surface water:		ft	
	Flood Frequency:	100 year +	loodpicin yes	
	What is the downstream distance to the nearest drinking-water intake?	HIDNE miles		
	nearest fishery? NOS miles nearest sensitive environment?	miles		
		A	В	,
	THE OOD OF SELENCE	Suspected	No Suspected	
LIK	ELIHOOD OF RELEASE	Release	Refease	References
	CLICRECTED BELEASE. If you evenes a selected to select the second of the	(540)		
	SUSPECTED RELEASE: If you suspect a release to surface water (see page 11' assign a score of 550, and use only column A for this pathway.	"		
	assign a score of 550, and use only column a for this pathway.		(\$00.460.300 er 100)	
2.	NO SUSPECTED RELEASE: If you do not suspect a release to surface water, as	nd ·		
	the distance to surface water is 2,500 feet or less, assign a score of 500; other			ł
	wise, assign a score from the table below. Use only column 8 for this pathway	#1000#00000000000000000000000000000000		1
	Floodalaia			
	Site in annual or 10-vr floodplain 500		1	}
	Site in 100-yr floodplain 400		1	1
			:1	1
				l w
	Site outside 500-yr floodplain 100		-00	2
		(640)	(600,400,300 as 100)	1
	ι	.R =	400	1
DA	INKING WATER THREAT TARGETS		_	
<u>-</u>	Description the water hady types flows of applicable), and number of applications		31.2	7
3.	Determine the water body types, flows (if applicable), and number of people se	■ 5 00000000 0000000000000000000000000000		•
	by all drinking-water intakes within the 15-mile target distance limit. If there a	■ 2003000 (127.0 ft 1.5 ft		I
	drinking-water intakes within the target distance limit, assign a total Targets so	core	1 章	i
	of 5 at the bottom of this page (Resources only) and proceed to page 14.			1
	Intake Name Weter Body Type Flow People Serv	700		1
	cfs			
				1
	cfs		1.:	
	cfs	11		2
				
4	PRIMARY TARGET POPULATION: If you suspect any drinking-water intake lis	ited		
	above has been exposed to hazardous substances from the site (see Surface V			1
	Pathway Criteria List, page 111, list the intake name(s) and calculate the facto	r	₩	1
	score based on the number of people served.	İ		1
				1
				2_
	people ×	10 =		
5.	SECONDARY TARGET POPULATION: Determine the Secondary Target		Ĭ	
	Population score from PA Table 3 based on the populations using drinking-wat	ter	1	1
	from intakes that you do NOT suspect have been exposed to hazardous	ļ	==	
	substances from the site.	<u> </u>	1	ł
				ļ
			7	7
	If yes, attach a page to show apportionment calculations.			
c	NEAREST INTAKE: If you have identified any Primary Targets for the drinking	(50,20,10.2.1. ≈ ù	120,10.2.1 0	1
٥.	· —			1
	water threat (Factor 4), assign a score of 50; otherwise, assign the Nearest In	*		ĺ
	score from PA Table 3. If no drinking-water intake exists within the 15-mile t	rarget	1	1 2
	distance limit, assign a score of zero.	iSI	(5)	
7	RESOURCES: A score of 5 is assigned.	5	5	- }
<i>'</i> .	UCGOOLICES. V. adale at a to accelerate			-\
			4	(

PA TABLE 3: VALUES FOR SECONDARY SURFACE WATER TARGET POPULATIONS

Surface Water		Nearest				Population	Served by	Intakes	Within Flo	w Catagoi	γ 🗼 🎉			
Body Flow Characteristics (see PA Table 4)	Population	Intake (choose highest)	1 (o 30	31 to 100	101 10 300	301 (e 1 000	1,001 to 3,000	3,001 to 10.000	10,001 (o 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1,000,000	1,000,001 to 3,000,000	Population
< 10 cfs		20	2	5	16	52	163	521	1,633	5,214	16,325	52,136	163,246	
10 to 100 cfs	<u> </u>	2	1	1	2	5	16	52	163	521	1,633	5,214	16,325	
> 100 to 1,000 cfs		1	o	o	1	1	2	5	16	52	163	521	1,633	
> 1,000 to 10,000 cfs	6:12	0	o	0	٥	0	1	①	2	5	16	52	163	1
> 10,000 cfs or Greet Lakes		o	0	0	0	o	0	0	1	1	2	5	16	
3-mile Mixing Zone		10	1	3	8	26	82	261	816	2,607	8,162	26,068	81,663	
Neare	st Intake =											5	core =	1

PA TABLE 4: SURFACE WATER TYPE / FLOW CHARACTERISTICS WITH DILUTION WEIGHTS FOR SECONDARY SURFACE WATER SENSITIVE ENVIRONMENTS

Type of Su	face Water Body	Dilution
Water Body Type	OR Flow Characteristics	Weight
minimal stream small to moderate stream moderate to large stream large stream to river large river	flow less than 10 cfs flow 10 to 100 cfs flow greater than 100 to 1,000 cfs flow greater than 1,000 to 10,000 cfs flow greater than 10,000 cfs	1 0.1 N/A N/A N/A
3-mile mixing zone of quiet flowing streums or rivers	flow 10 cfs or greater	N/A
coastal tidal water (harbors, sounds, bays, etc.), ocean, or Greut Lakes	N/A	N/A

te Mane: Lkita Tkiek kkisea .

Date: 08/27/11

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SURFACE WATER PATHWAY (continued) HUMAN FOOD CHAIN THREAT SCORESHEET

				A	B	
LIKI	ELIHOOD OF RELEASE			Suspected Release	No Suspected Release	References
Enter	the Surface Water Likelihood of Release	score from page 12.	=	(1446)	H00	
ни	MAN FOOD CHAIN THREAT TARG	ETS				
	Determine the water body types and flow the 15-mile target distance limit. If there distance limit, assign a Targets score of proceed to page 15.	are no fisheries within the target				
	Fisherv Name	Water Body Type Flow cfcfcf	2			2
9.	PRIMARY FISHERIES: If you suspect an to hazardous substances from the site is assign a score of 300 and do not evaluate.	see Surface Water Criteria List, page 11	1),	(300 m 4)		
10.	SECONDARY FISHERIES: If you have n assign a Secondary Fisheries score from		w	(210 ,30,12 æ 01	1210.30.12. w Ol	

at any fishery within the 15-mile target d	
Lowest Flow	Secondary Fisheriee-Score
< 10 cfs	210
10 to 100 cts	30

GARGINGS A. L. IZLIGATOR GROVE
210
30
12

1300.210.30.12 as as 1210.30,12 as as

T =



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Site Name: PRIES ENTERPRISES INC. Date: 08/47/9/

SURFACE WATER PATHWAY (continued) ENVIRONMENTAL THREAT SCORESHEET

					<u>A</u>	В	
LIKE	LIHOOD OF REL	EASE			Suspected Release	No Suspected Refease	References
Enter	tne Surface Water	Likelihood of Release so	core from page 12.	LR =	,560	HOO.488.300= 108	•
ENV	IRONMENTAL T	HREAT TARGETS					,
s a I	sensitive environmentand 5). If there are	nts within the 15-mile (no sensitive environme	(if applicable) for all surface target distance limit (see PA nts within the 15-mile target trom of this page, and proces	Tables 4 distance		- 1	
۲	Environment Name		Water Body Type	Flow			
				cfs			
				cts			
				cts			
				cfs			
l				- crs	(300 er 0)		}
	Surface Water Crite Factor 13. List the	ena List, page 11), assu Primary Sensitive Envi					
13.	SECONDARY SENS	SITIVE ENVIRONMENTS	:				
	•		on surface water bodies wit vs, and do not evaluate part				
	Flow	Dilution Weight (PA Table 4)	Environment Type and Valu (PA Tables 5 and 6)	Total			
	cfs	×		3			
	cfs	x		-			
	cfs	x		=			
	cfs	x		3			
	cfs	×		<u>≠</u> 1		o o	
	•	_		Sum =	(10 er 0s	110 = 04	7
		y Sensitive Environments of the Sensitive Environment of the Sensitive Environ	its are located on surface wa a score of 10.	iter bodies		<i>i</i> ⁄	
L							7

Site Name: PRIES ENTERPRISES INC Date: 08/21/91

PA TABLE 5: SURFACE WATER AND AIR SENSITIVE ENVIRONMENTS VALUES

Sensitive Environment	Assigned-Vakes
Critical habitat for Federally designated endangered or threatened spacies	100
Manne Sanctuary	
National Park	
Designated Foderal Wilderness Area	
Ecologically important areas identified under the Coastal Zone Wilderness Act	
Sensitive Areas identified under the National Estuary Program or Near Coastal Water Program of the	Clean Water Act
Critical Areas identified under the Closh Lakes Program of the Closh Water Act (subareas in lakes of	entire smell lakesi
National Monument	
National Sessitore Recreation Area	
National Lakeshore Recreation Area	
Habitat known to be used by Federally designated or proposed endangered or threatened species	76
National Preserve	
National or State Wildlife Refuge	
Unit of Coastal Barner Resources System	
Federal land designated for the protection of natural ecosystems	
Administratively Proposed Federal Wilderness Area	
Spawning areas critical for the maintenance of fish/shellfish species within a river system, bay or est	tuary
Migratory pathways and feeding areas critical for the maintenance of anadromous fish species in a ri	ver system
Terrestrial areas utilized by large or dense aggregations of vertebrate enimals (semi-aquatic foragers)	for breeding
National river reach designated as recreational	
Hebitat known to be used by State designated endangered or threatened species	50
Habitat known to be used by a species under rowew as to its Federal endangered or threatened stati	us
Coastal Barner (partially developed)	
Federally designated Scenic or Wild River	
State land designated for wildlife or game management	25
State designated Scanic or Wild River	
State designated Natural Area	
Particular areas, relatively small in size, important to maintenance of unique biotic communities	
State designated areas for the protection/maintenance of aquatic life under the Clean Water Act	5
See P	A Table 6 (Surface Water Pathway)
Wetlands	or
	PA Table 9 (Air Pathway)

PA TABLE 6: SURFACE WATER WETLANDS FRONTAGE VALUES

Total Length of Wetlands	Assigned: Value
Less than 0.1 mile	0
O.1 to 1 mile	25
Greater than I to 2 miles	50
Greater than 2 to 3 miles	75
Greater than 3 to 4 miles	100
Greater than 4 to 8 miles	150
Greater than 8 to 12 miles	250
Greater than 12 to 16 miles	350
Greater than 16 to 20 miles	450
Greater than 20 miles	500



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Site Name: PRIES ENTERPRISES INC.

Date: 01/29/91

SURFACE WATER PATHWAY (concluded) WASTE CHARACTERISTICS, THREAT, AND PATHWAY SCORE SUMMARY

	A	В
	Suspected	No Suspected
WASTE CHARACTERISTICS	Refease	Refease
14. A. If you have identified ANY Primary Targets for surface water (pages 12, 14, or 15), assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part 8 of this factor.	(100.32, or 100	1/08.20 a 10
B. If you have NOT identified any Primary Targets for surface water, assign the waste characteristics score calculated on page 4.		18
WC =		18

SURFACE WATER PATHWAY THREAT SCORES

Threat	Likelihood of Release (LR) Score (from page 12)	Release (LR) Score Targets (T)		Threet Scare LR x T x WC / 82,500	
				(migrat to a crosspan of 1999)	
Drinking Water	400	5	18	.436	
				(calculate to a crossment of 165)	
Human Food Chain	400	ø	18	.087	
				(cásis to a majetim et 40)	
Environmental	400	ø	/8	.087	

SURFACE WATER PATHWAY SCORE

(Drinking Water Threat + Human Food Chain Threat + Environmental Threat)

Ù•	61	

SOIL EXPOSURE PATHWAY CRITERIA LIST

Site Name: PRIZS ENTER PRISES DUC-

This chart provides guidelines to essist you in hypothesizing the presence of a resident population. It is expected that not all of this information will be evaluable during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize resident populations. This chart will record your professional judgment in evaluating this factor.

Use the resident population section to guide you through evaluation of some site and source conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once, depending on the number of nearby people you feel may be considered part of a resident population. Record the responses for the resident population target that you feel has the highest probability of being exposed to hazardous substances.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question.

SOIL EXPOSURE PATHWAY								
SUSPECTED CONTAMINATION				RESIDENT POPULATION				
	ř	N	3(e3#2C	- 10 mm in - 1 4 mm (20) ph - 24 - 1971年				
Surficial contamination is assumed.		۵	è z r	Are there residences, schools, or day care facilities on or within 200 feet of areas of suspected contamination?				
	a	Ø	а	Are residences, schools, or day care facilities located on adjacent lend previously owned or leased by the site owner/operator?				
	a	7	٥	ls there en overland migration routs that might spread hazardous substances near residences, schools, or day care facilities?				
		Ø	۵	Are there any reports of adverse health effects from onsite or adjacent residents or students, exclusive of apparent drinking water or air contamination problems?				
		X	ď	Does any offsite property warrant sampling?				
•				Other criteria?				
		প্ৰ		RESIDENT POPULATION IDENTIFIED?				

Summarize the rationale for resident population (attach an additional page if necessary):								
,	ive.	ν» ,: ο	surface	. rater	ure	my residents		
		÷					·	
					··			
							-	

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SOIL EXPOSURE PATHWAY SCORESHEET

Pathway Characteristics

	Do any people live on or within 200 ft Do any people attend school or day ca of suspected contamination? Is the facility active? Yes No	re on or within 200		Yes	- No 7	
				A	В	
	ELIHOOD OF EXPOSURE			Suspected Contemination	No Suspected	References
۱.	SUSPECTED CONTAMINATION: Surficial co A score of 550 is assigned.	ntamination is assu	med.	550		4
RE	SIDENT POPULATION THREAT TARGE	TS				·-
2.	RESIDENT POPULATION: Determine the numor attending school or day care on or within a contamination (see Soil Exposure Pathway C	200 feet of areas o	f suspected	0		_5_
3.	RESIDENT INDIVIDUAL: If you have identified assign a score of 50; otherwise, assign a score		oulation (Factor 2),	7)		_5_
4.	WORKERS: Assign a score from the following workers at the facility and nearby facilities were assigned to the facilities as a single facilities were assigned to the facilities as a single facilities as	with suspected cont		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	Alumbas of Workses	Score				l
	1 to 100	<u> </u>				
	101 to 1,000	10				1
	>1.000	15		5		5
5.	TERRESTRIAL SENSITIVE ENVIRONMENTS: for each terrestrial sensitive environment that contamination: Terrestrial Sensitive Environment Type	it is located on an a				
				0		3
6.	RESOURCES: A score of 5 is assigned.			5		
W	ASTE CHARACTERISTICS		т	5.		<u> </u> -
7.	Assign the waste characteristics score calcu	slated on page 4.	wc	= /8		
R	ESIDENT POPULATION THREAT SCORI		x T x WC 82,500	() (60]
Ν	EARBY POPULATION THREAT SCORE:					7
	ssign a score of 2				2	1
	-					- -
	OIL EXPOSURE PATHWAY SCORE: esident Population Threat + Nearby Po	pulation Threat		2.	6	



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PA TABLE 7: SOIL EXPOSURE PATHWAY TERRESTRIAL SENSITIVE ENVIRONMENT VALUES

Terrostrial Sansitivo Environment	Acaigmock Value
Terrestrial critical habitat for Federally designated endangered or threatened species	100
National Park	
Designated Federal Wilderness Area	
National Monument	
Terrestrial habitat known to be used by Federally designated or proposed threatened or endangered species	75
National Preserve (terrestrial)	•
National or State terrestrial Wildlife Refuge	
Federal land designated for protection of natural ecosystems	
Administratively proposed Federal Wilderness Area	
Terrestrial areas utilized by large or dense aggregations of animals (vertebrate species) for breeding	
Terrestrial habitat used by State designated endangered or threatened species	50
Terrestrial habitat used by species under review for Federally designated endangered or threatened status	
State lands designated for wildlife or game management	25
State designated Natural Areas	
Particular areas, relatively small in size, important to maintenance of unique biotic communities	

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AIR PATHWAY CRITERIA LIST

Site Name: PRIES ENTERPRISES DIC-

This chart provides guidelines to assist you in hypothesizing the presence of a suspected release. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize a suspected release.—This chart will record your professional judgment in evaluating this factor.

The "Suspected Release" section of the chart guides you through evaluation of some conditions to help hypothesize whether a release from the site is likely. For the Air Pathway, if a release is suspected. "Primary Targets" are any residents, workers, students, or sensitive environments within % mile of the site.

Check the boxes to indicate a "yes", "no", or "unknown" enswer to each question. If you check the "Suspected Release" box as "yes", make sure that you assign a Likelihood of Release value of 550 for the pathway.

		<u> </u>		
			AIR PAT	HWAY
			SUSPECTED RELEASE	PRIMARY TARGETS
, Y	N) c k		
		200		
	Ø		Have odors been reported?	If you suspect a release to air, evaluate all populations and sensitive environments within % mile fincluding those enaited as Primary Targets.
	X		Has a release of hazardous substances to the air been directly observed?	***
0	`र्च्	0	Are there any reports of adverse health effects (e.g., headaches, neusee, dizziness) potentially resulting from migration of hazardous substances through the air?	•
a	×	а	Is there any circumstantial evidence of an air release?	
			Other criterie?	. .
а	Ä		SUSPECTED RELEASE?	·

Summarize the rationale for suspected release (attach an additional page if necessary):								
	No	Suspented	release					
	•							
	٠	·						
				۲				

UR PATHWAY SCORESHEET

	Do you suspect a release (see Air Pathway Criteria List, page 21)? Distance to the nearest individual:	Yes	No	-
		Α	В	
1 114	ELIHOOD OF RELEASE	Suspected Release	No Suspected	References
	SUSPECTED RELEASE: If you suspect a release to air (see page 21), assign a score of 550, and use only column A for this pathway.	15440		
2.	NO SUSPECTED RELEASE: If you do not suspect a release to air, assign a score of 500, and use only column 8 for this pathway.		500	* 5_
	LR =		500	
	RGETS			
3.	PRIMARY TARGET POPULATION: Determine the number of people subject to exposure from a release of hazardous substances through the air (see Air Pathway Criteria List, page 21).			
4.	SECONDARY TARGET POPULATION: Determine the number of people within the 4-mile target distance limit, and assign the total population score from PA Table 8.		9	<u> 15</u>
5.	NEAREST INDIVIDUAL: If you have identified any Primary Targets for the air pathway, assign a score of 50; otherwise, assign the highest Nearest Individual score from PA Table 8.	(10.20, J.2.1, & 0)	20	#5
6.	PRIMARY SENSITIVE ENVIRONMENTS: Sum the sensitive environment values (PA Table 5) and wetland acreage values (PA Table 9) for environments subject to exposure from air hazardous substances (see Air Pathway Criteria List, page 21). Sensitive Environment Type Value			*
	Sum =			
7	SECONDARY SENSITIVE ENVIRONMENTS: Use PA Table 10 to determine the score for secondary sensitive environments.		0	#3
8	RESOURCES: A score of 5 is assigned.	5	5	
L			34	
	ASTE CHARACTERISTICS	1100 € 321	- T	7
9	A. If you have identified any Primary Targets for the air pathway, assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part B of this factor.		1100.33, gr 191	
	B. If you have NOT identified any Primary Targets for the air pathway, assign the waste characteristics score calculated on page 4.	(100,32, er idl	18	
	WC =		18	
ı	UR PATHWAY SCORE: LR x T x WC	(malayees to	9 maximum of 1001	7
ĺ	82.500	1 3	. 7	

Site Name: PRIES ENTER PRISES INC. Date: 08/29/91

PA TABLE 8: VALUES FOR SECONDARY AIR TARGET POPULATIONS

		Nearest													
Distance from Site	Population	Individual (choose highest)	1 to 10	11 # 30	31 to 100	101 to 300	30 1 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 10 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1.000,000	1,000,001 to 3,000,000	Population
Onsite		(20)	1	3	5	16	52	163	521	1,633	5,214	16,325	52,136	163,246	2
>0 to % mile	50	20	1	,	(i)	4	13	41	130	408	1,303	4,081	13,034	40,811	
> 1/2 to 1/3 mile	200	2	0	o	,	①	3	9	28	88	282	882	2,815	8,815	
> ½ to 1 mile	790	1	0	o	0	,	①	3	8	26	83	261	834	2,612	
> 1 to 2 miles	4000	0	o	0	0	0	1	1	3	8	27	83	266	833	3
> 2 to 3 miles	950	0	o	o	0	o	①	1	1	4	12	38	120	376	
>3 to 4 miles	402	٥	0	0	0	0	(1	1	2	7	23	73	229	_0_
Nearest Individual = 20								9							

PA TABLE 9: AIR PATHWAY VALUES FOR WETLAND AREA

Watland Area As	signed Value
Less than 1 acre	0
1 to 50 acres	25
Greater than 50 to 100 acres	75
Greater than 100 to 150 acres	125
Greater than 150 to 200 acres	175
Greater than 200 to 300 acres	250
Greater than 300 to 400 acres	350
Greater then 400 to 500 acres	450
Greater than 500 acres	500

PA TABLE 10: DISTANCE WEIGHTS AND CALCULATIONS FOR AIR PATHWAY SECONDARY SENSITIVE ENVIRONMENTS

<u>Osiens</u>	機關	a fath formula is the	
Onsite	0.10	×	
		×	
0-1/4 mi		×	
	0.025	×	
		*	
1/4-1/2mi	0.0054	×	
		X	
		X	
		x	
		Total Environments Score =	0

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Site Name: ARIES ENTERMINES 24.

SITE SCORE CALCULATION

	S	S ²
GROUND WATER PATHWAY SCORE (S,):	16.9	256
SURFACE WATER PATHWAY SCORE (S,_):	.61	,37
SOIL EXPOSURE PATHWAY SCORE (S,.):	2.6	6,76
AIR PATHWAY SCORE (S,):	3.7	13.69
SITE SCORE:	$\sqrt{\frac{S_{qv}^2 + S_{sv}^2 + S_{so}^2 + S_a^2}{4}} =$	8.3

RECOMMENDATION

SUMMARY

Is there a high possibility of a threat to nearby drinking water wells by migration of hazardous substances in ground water?		
2002/dipps in Arabic Arabac.	ū	128
A. If yes, identify the wells recommended for sampling during the SI.		
B. If yes, how many people are served by these threatened wells?		
Are any of the following suspected to have been exposed to hazardous substances through surface water migration from the site?		1
A. Drinking water intake] =	ユ
B. Fishery		図
C. Sensitive environment: wetland, critical habitat, others		风
D. If yes, identify the targets recommended for sampling during the SI.		
Do people reside or attend school or day care on or within 200 ft of any area of suspected contamination?		×
Are there public health concerns at this site that are not addressed by PA scoring considerations of yes, explain:	7 🗆	岚

HRS DOCUMENT LOG S	CITY INDEPENDENCE IDENTIFICATION NUMBER 140051460485
REFERENCE NUMBER	DESCRIPTION OF REFERENCE
	While KO, Ladregson GA, Rugar GL, and Steinkongto
	Water Resource of East-Control Iona, State of
	Erwa No. 6, 91p, 1978
2	- Shurret O. and Corten Kamp J., Independence
	Writer Department, Felephone Conversation
	1. Jater: in are Are and 19, 1991
3	Irvo Descriment of Natural Resources, Dem 17 rines.
	Techene Conversation Fishery, Aprimo + 19,
	1991
4.	CDM Field Notebook No. 1, Visual Sike
	Investigation at Pries Site, July 17, 1991.
5	Sp. 11 Prue Enterpreses Alumerium -
	Independence, 1987 70114 0803 7-05A-0130
	
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